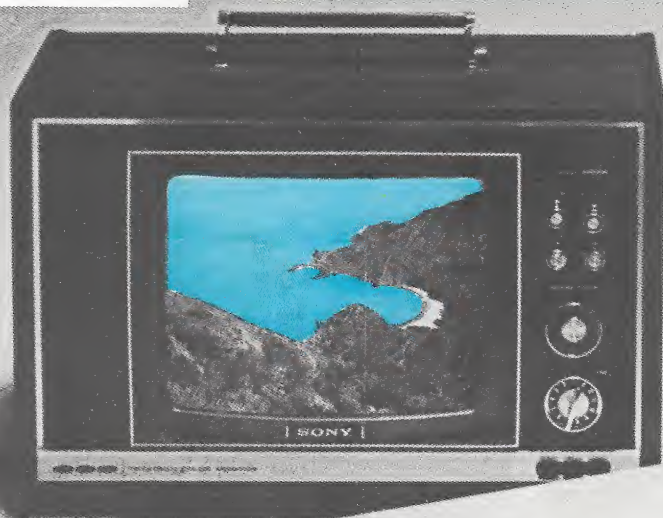
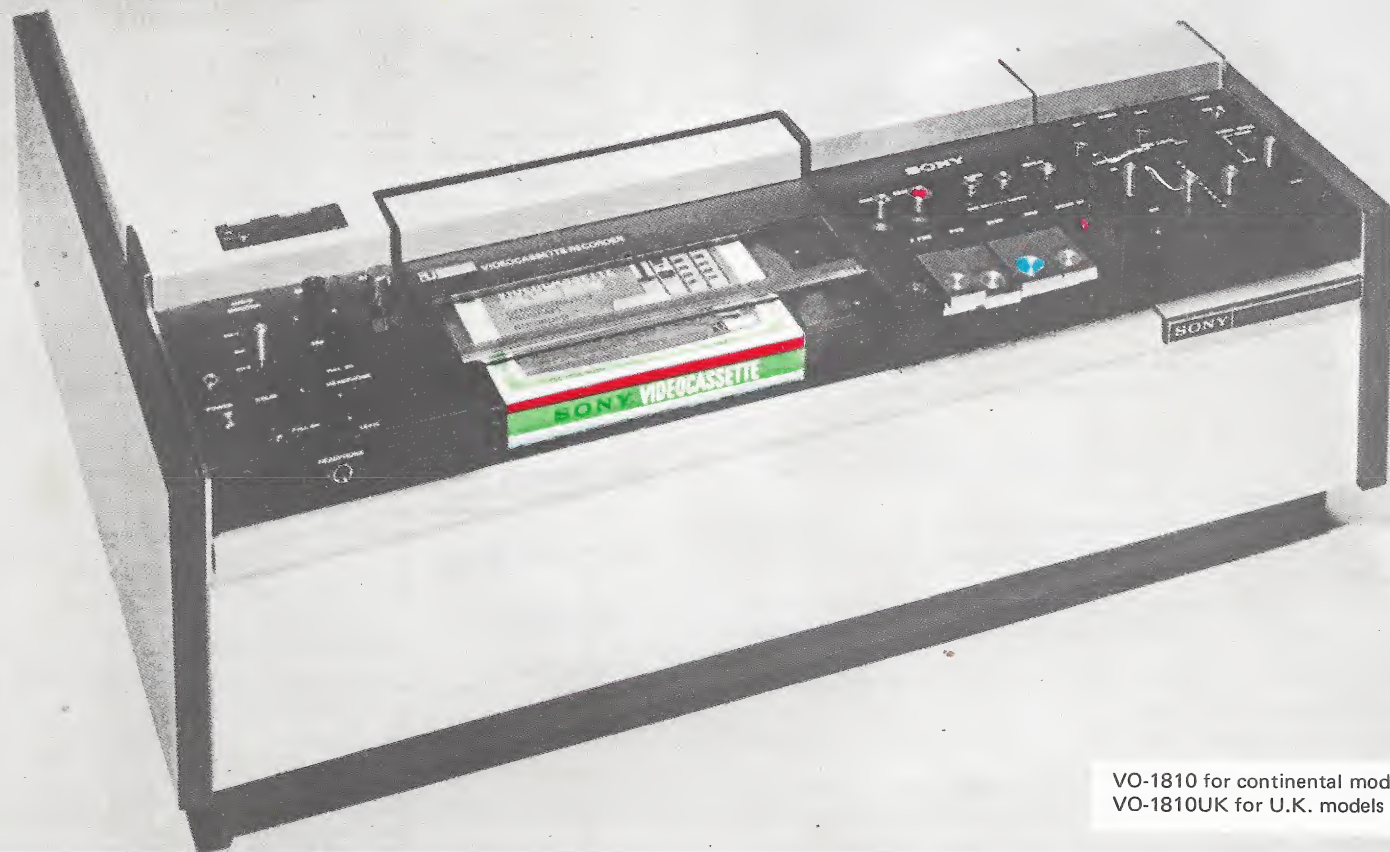


VO-1810/A

Simulated TV picture



Colour receiver/monitor
CVM-1310E



VO-1810 for continental models
VO-1810UK for U.K. models

*A future-oriented global communication system
with versatile functions
The Sony U-matic Colour Videocassette Recorder/Player*

Research makes the difference

U-matic

SONY

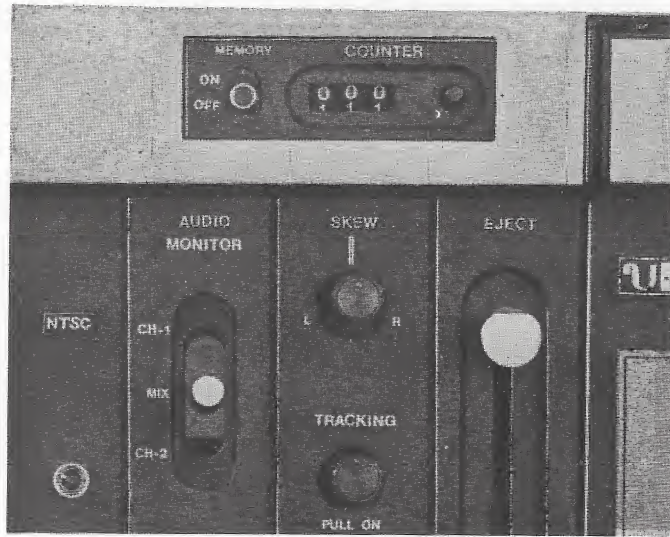
*Trademark of Sony Corporation

Features

■ **Records and plays back the PAL colour and CCIR monochrome video signals** from camera, television or other sources at any time. In addition, **NTSC colour and American standard monochrome video signals can be played back** through a Sony receiver/monitor or a Sony Trinitron videocassette monitor.

■ **High resolution colour and monochrome pictures** due to advanced circuit design and high quality videocassette tape. Sony $\frac{3}{4}$ -inch tape provides an optimum combination of picture stability and quality with slow speed (95.3mm/s, $3\frac{3}{4}$ ips) for tape economy, while allowing adequate space for two audio tracks.

■ **The memory counter and repeat function** are linked to provide various tape motions—FULL AUTO REWIND, AUTO REPEAT, PROGRAMMED REWIND and PROGRAMMED REPEAT (see linkage operation chart.)



■ **Easy operation**—No need to thread the tape. Videocassette insertion is as easy as operating a toaster. Videocassettes can also be stopped and removed at any point without rewinding. Minimum number of controls.

■ **Easy playback picture viewing**—Built-in RF modulator allows the recorded tape to play back through a conventional colour TV receiver.

■ **Hi-fi sound**—Two audio tracks provide bilingual messages or high quality stereo sound through a stereo components system. Stereo headphones may be used.

■ **8-pin connector** for single cable connection to a TV receiver/monitor. Convenient for off-the-air TV programme recording and playback.

■ **Pause function**, during either the record or playback mode, stops the tape momentarily. Quick restart is assured by pushing the pause button again.

■ **Audio dubbing**—Commentary or music can be added at any time to previous recordings.

■ **Automatic shutoff** on PLAY, REWIND and FAST FORWARD modes when tape reaches the end.

■ **Safety recording—AGC (Automatic Gain Control) for video recording: Limiter circuit for audio recording**, prevents tape saturation and distortion without reducing the full dynamic range by reducing high level peaks.

■ **Full systems capability**—Signals can be recorded or fed into CCTV or other video systems.

■ **Complete tape interchangeability**—Tapes recorded on another U-matic Videocassette recorder/player or commercially available pre-recorded tape incorporating the PAL system or the NTSC system can be played back on the set. **Skew and tracking controls** are provided for precise control of tape.

■ **Highly reliable solid-state circuitry**—Automatic control circuits, using advanced ICs and transistors, ensure top performance and long-term reliability with virtually no maintenance.

■ **Commercially available timer** can be used to automatically turn the power of the set on or off at a preset time.

SPECIFICATIONS

General

Video recording system:	Rotary two-head helical scan system
	Luminance; FM recording
Video signal system:	Colour signal; Converted subcarrier direct recording
	Recording; PAL video signals (625 lines, 50 fields)
	Playback; PAL video signals (625 lines, 50 fields)
	NTSC video signals (525 lines, 60 fields)
Storage temperature:	-20°C to 60°C (-4°F to 140°F)
Operating temperature:	5°C to 40°C (41°F to 104°F)
RF output signal:	West European standard UHF channels 50 - 54, 83 $\pm 5\text{dB}\mu$, 75 ohms, unbalanced for VO-1810
	British standard UHF channels 50 - 54, 83 $\pm 5\text{dB}\mu$, 75 ohms, unbalanced for VO-1810UK
Power requirements:	AC 110, 127, 220 or 240V $\pm 5\%$ (selectable with voltage selector), 50Hz $\pm 0.5\%$
	VO-1810 is preset at 220V.
	VO-1810UK is preset at 240V.
Power consumption:	115W
Dimensions:	676(W) \times 238(H) \times 466mm(D) (26 $\frac{1}{2}$ \times 9 $\frac{3}{8}$ \times 18 $\frac{3}{4}$ "
Weight:	34 kg (75 lb)

Video signal

Input:	0.5 - 2.0V (p-p), 75 ohms, unbalanced (V/S=7/3)
Output:	1.0V (p-p), 75 ohms, unbalanced
Horizontal resolution:	Monochrome; more than 300 lines
	Colour; more than 240 lines
Signal-to-noise ratio:	Better than 42dB

Audio signal

Input:	Microphone; -72 to -30dB, 600 ohms, unbalanced
	Auxiliary; -22 to +10dB, 10k ohms, unbalanced
Output:	LINE OUT (both channels); 0dB, 10k ohms, unbalanced
	MONITOR OUT; 0dB, 10k ohms, unbalanced
	HEADPHONE OUT: -24dB/-34dB (selectable), 8 ohms, unbalanced
Crosstalk:	Better than 40dB
Frequency response:	100Hz - 6kHz $\pm 2\text{dB}$
	50Hz - 12kHz $\pm 2\text{dB}$
Signal-to-noise ratio:	Better than 42dB
Audio dubbing:	New sound on to inel 1

Tape transport

Tape speed:	9.53cm/s (3 $\frac{3}{4}$ ips)
Wow and flutter:	Less than 0.25%
Recording or playback time:	60 min. (using Sony KC-60)
	30 min. (using Sony KC-30)
Fast forward and rewind time:	Approx 3 min. (using Sony KC-60)
Tape:	CrO ₂ tape

Supplied accessories:

Mains lead (AC power cord)
UHF output cable with 300-ohm matching transformer
Videocassette KC-10 (10 min.)
Dust cover

Recommended video equipment and accessories

13-inch colour receiver/monitor:	CVM-1320E (West European standards)
	CVM-1320UB (British standards)
18-inch colour receiver/monitor:	CVM-1810E (West European standards)
	CVM-1810UB (British standards)
18-inch Trinitron videocassette monitor:	CKV-181E (West European standards)
	CKV-181UB (British standards)
18-inch colour TV receiver:	KV-1810E (West European standards)
	KV-1810UB (British standard)
Monochrome video camera:	AVC-3200CE
	AVC-4200ACE
	AVC-4600CE
Colour video camera:	DXC-5000P
	DXC-5020P
Special effects generator:	SEG-200P
Sync generator:	CG-101P (colour), CG-3CE (monochrome)
Subcarrier phase shifter:	PSA-101P
Sync distributor:	DA-101CE
Headphones:	DR-5A, 7, 11
Videocassette:	KC-60 (60 min.), 30 (30 min.), 20 (20 min.), 15 (15 min.), 10 (10 min.)
Cleaning videocassette:	KC-1C

SONY CORPORATION